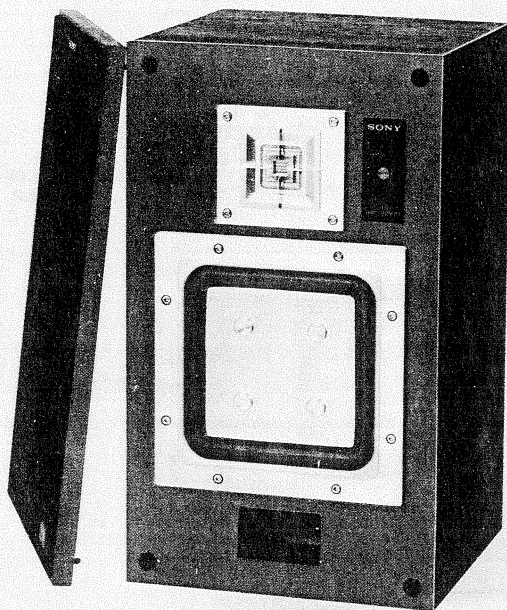


# APM-33W



*US Model*  
*Canadian Model*  
*AEP Model*  
*UK Model*  
*E Model*

## SPEAKER SYSTEM

### SPECIFICATIONS

Speaker system	2-way speaker system
Speaker units	Woofer: 324 cm <sup>2</sup> (50 in <sup>2</sup> ), flat diaphragm Tweeter: 16 cm <sup>2</sup> (2.5 in <sup>2</sup> ), flat diaphragm
Enclosure type	Bass reflex Removable front grille
Nominal impedance	6 ohms
Power handling capacity	Nominal 80 W DIN 45500 Maximum 160 W DIN 45500
Sensitivity	91 dB (1 W, 1 m) 3.2 W (96 dB, 1 m) DIN 45500
Frequency range	39 - 20,000 Hz $\pm \frac{4}{8}$ dB DIN
Crossover frequency	2,200 Hz
Tweeter level control	From 0 dB to -50 dB continuously adjustable
Dimensions	Approx. 315 × 540 × 320 mm (w/h/d) (12 <sup>1</sup> / <sub>2</sub> × 21 <sup>3</sup> / <sub>8</sub> × 12 <sup>5</sup> / <sub>8</sub> inches)
Weight	Approx. 14.4 kg (6 lbs) net, including front grille Approx. 16.4 kg (7 lbs) in shipping carton

#### Circuit breaker

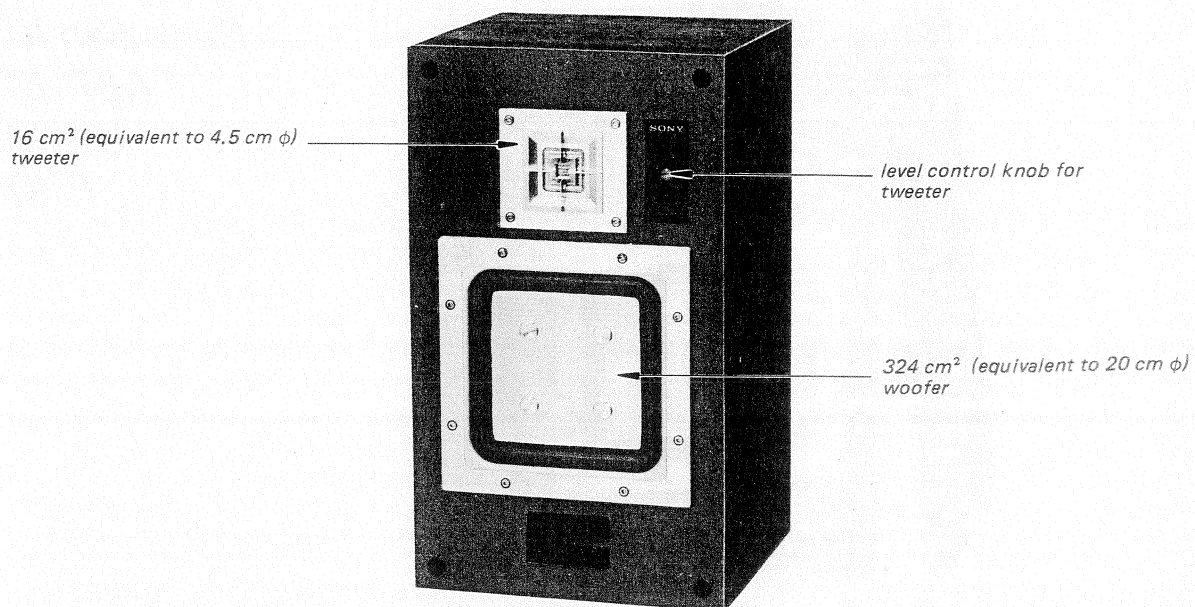
This speaker system incorporates a circuit breaker. It automatically cuts off the signal flow for a while when excessive input signals are supplied and so protects the speaker units. Signal flow will recover within about 10 seconds.



# SONY®

## SERVICE MANUAL

## 1. FUNCTION OF CONTROLS



## 2. DISASSEMBLY

### • SPEAKER UNIT, ATTENUATOR REMOVAL

**Note:** Follow the disassembly procedure in the numerical order given.

Remove the front grille.

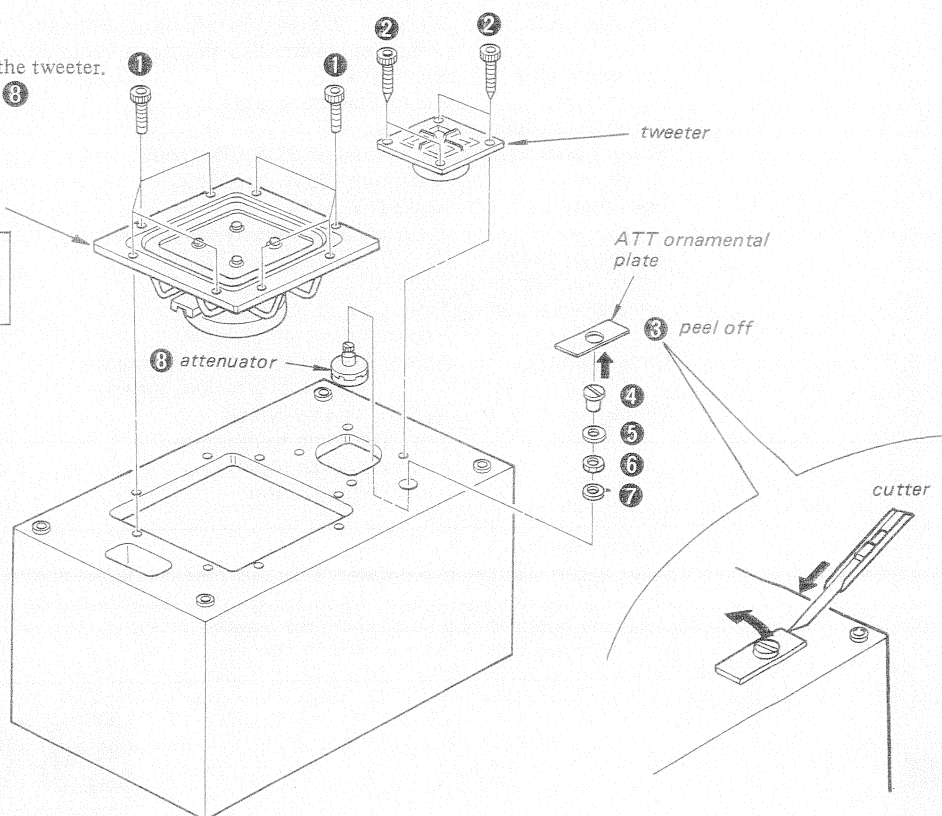
woofer: ①

tweeter: ②

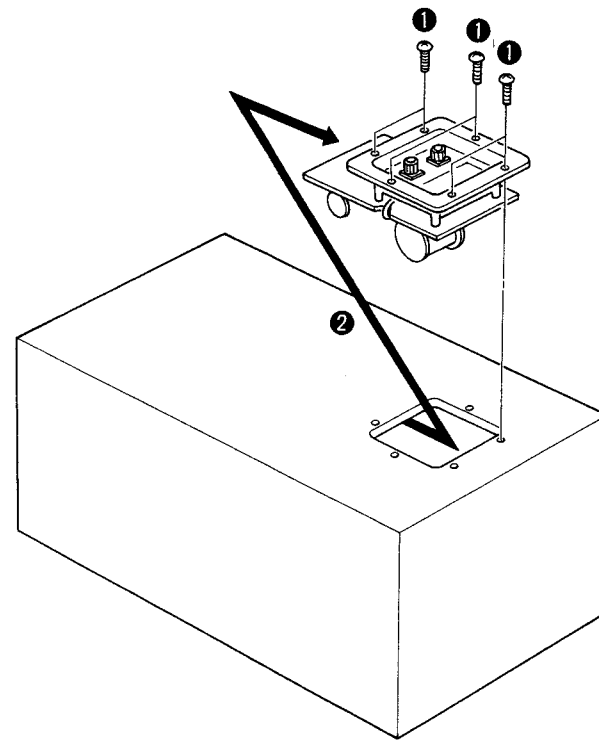
attenuator: Remove the tweeter.

② → ⑧

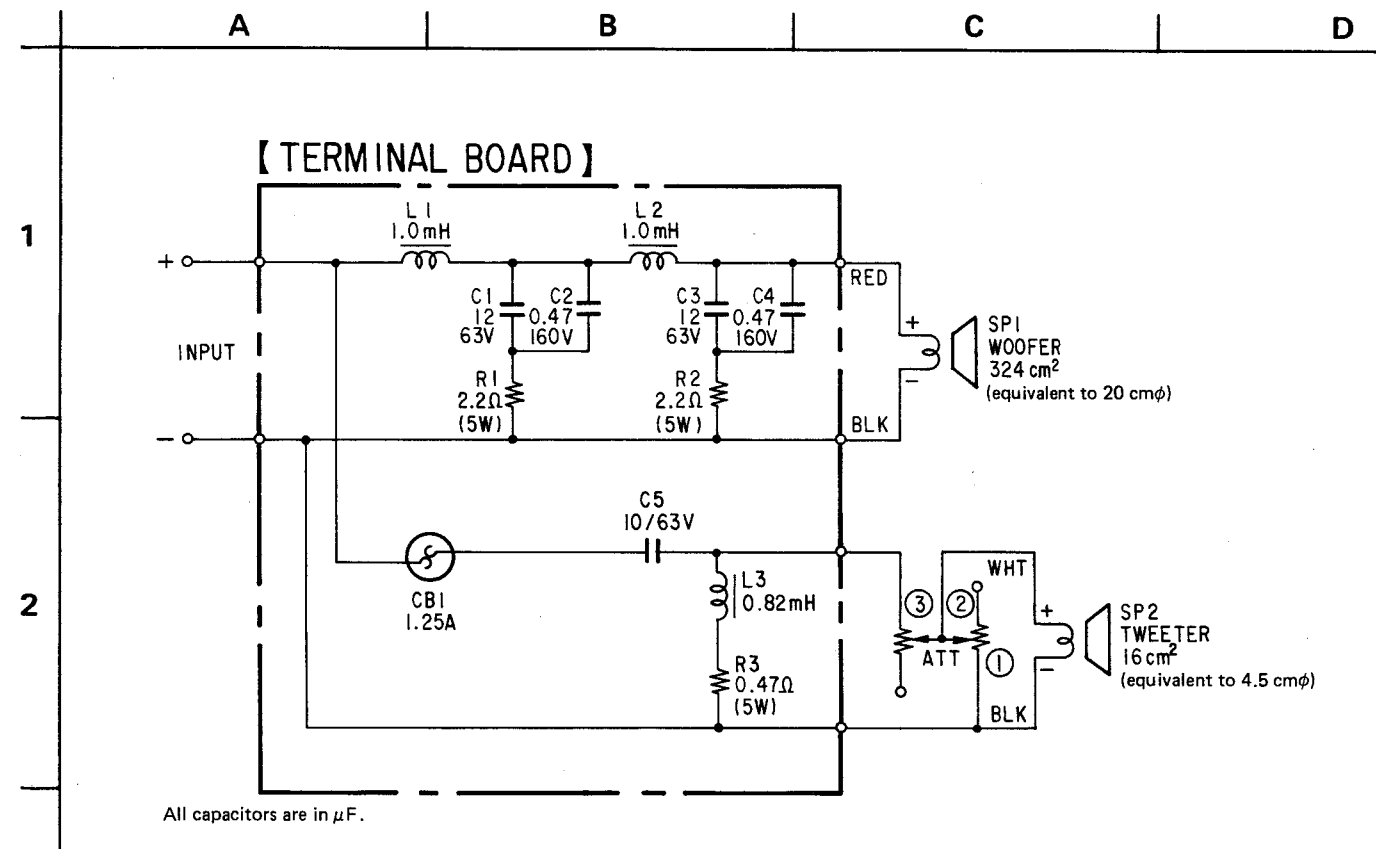
Set the terminal of the unit toward the tweeter when installing the woofer.



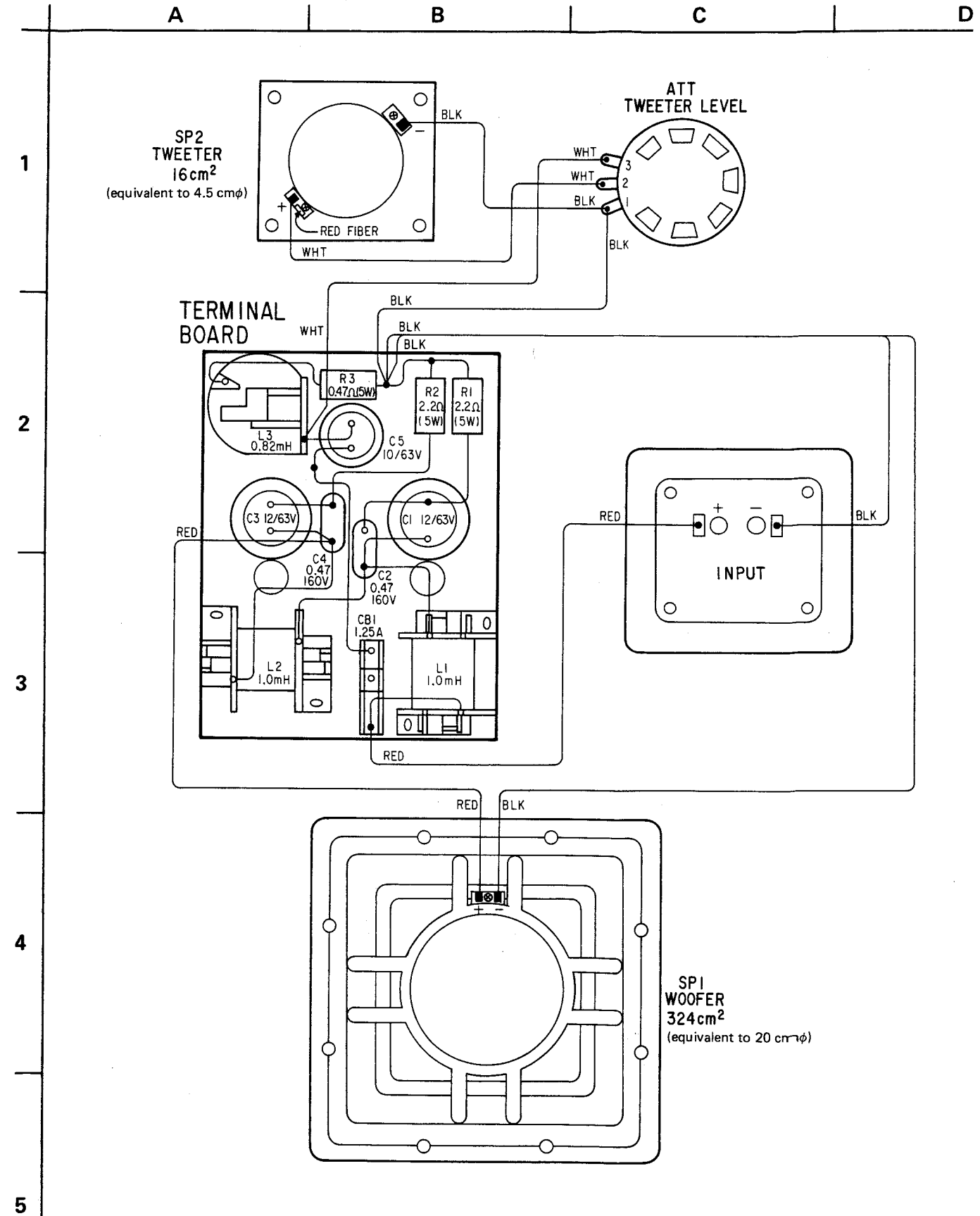
- NETWORK TERMINAL BOARD REMOVAL



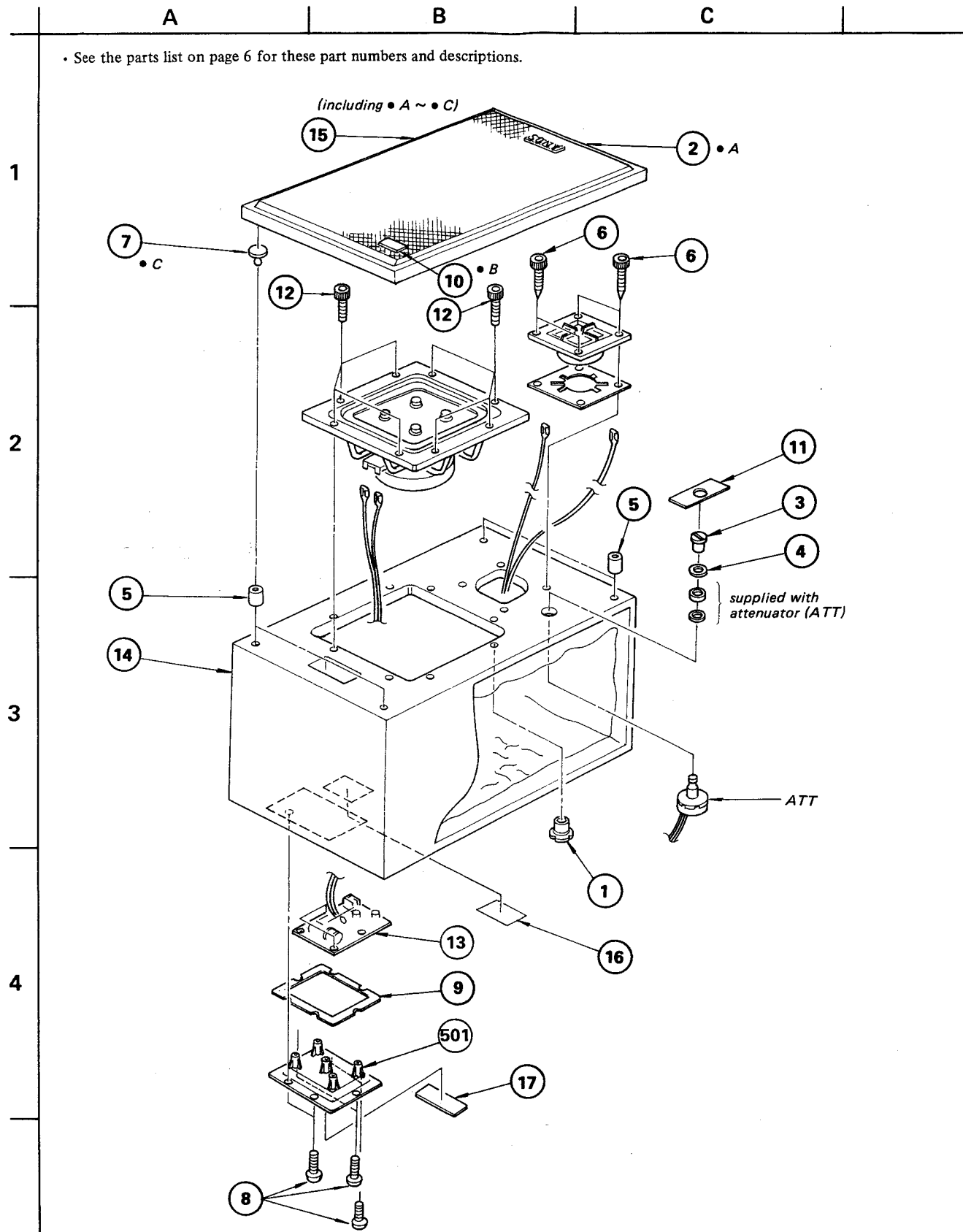
### 3. SCHEMATIC DIAGRAM



#### 4. MOUNTING DIAGRAM — Component Side —



5. EXPLODED VIEW



6. PARTS LIST

GENERAL SECTION		
No.	Part No.	Description
1	2-224-905-00	NUT
2	3-548-973-00	EMBLEM, SONY
3	3-568-604-21	KNOB, ATT
4	3-831-441-XX	SPACER
5	4-849-034-00	CATCHER
6	4-849-042-11	SCREW (A) (DIA. 5), TAPPING
7	4-855-710-00	STRIKE, DRIVING FIT
8	4-874-614-11	SCREW (M3.5), + BV TAPPING
9	4-881-213-00	PACKING, TERMINAL BOARD
10	4-884-408-00	EMBLEM, APM
11	4-884-409-00	PLATE, ORNAMENTAL, ATT
12	7-683-442-08	BOLT 5X25
13	4-884-418-00	TERMINAL BOARD
14	X-4884-405-0	CABINET ASSY, SPEAKER
15	X-4884-406-0	PANEL ASSY, FRONT
16	4-866-816-00	LABEL, CAUTION
17	4-884-414-00	LABEL, MODEL NUMBER
ACCESSORY & PACKING MATERIAL		
No.	Part No.	Description
41	1-534-687-00	CORD, SPEAKER SYSTEM CONNECTION
42	3-701-020-00	BAG, CHECK SHEET
43	4-855-724-00	CUSHION
44	4-867-707-00	SHEET, PROTECTION
45	4-884-415-00	INDIVIDUAL CARTON
46	3-773-204-11	MANUAL, INSTRUCTION

ELECTRICAL PARTS		
Ref.No.	Part No.	Description
501	1-536-715-21	TERMINAL BOARD, SPEAKER
ATT	1-511-028-00	ATTENUATOR
C1	1-124-176-00	CAP, ELECT (NONPOLAR) 12MF
C2	1-130-574-00	CAP, POLYESTER FILM 0.47MF
C3	1-124-412-00	CAP, ELECT (NONPOLAR) 12MF
C4	1-130-574-00	CAP, POLYESTER FILM 0.47MF
C5	1-123-815-00	CAP, ELECT (NONPOLAR) 10MF
CB1	1-532-664-00	CIRCUIT BREAKER
L1	1-459-167-NY	COIL, NETWORK (CHUS TYPE)
L2	1-459-167-NY	COIL, NETWORK (CHUS TYPE)
L3	1-459-169-NY	COIL, NETWORK (CHUS TYPE)
R1	1-217-651-00	RES, WIREWOUND 2.2 5W
R2	1-217-651-00	RES, WIREWOUND 2.2 5W
R3	1-217-600-00	RES, WIREWOUND 0.47 5W
SP1	1-503-191-11	SPEAKER (WOOFER) 342CM <sup>2</sup> (EQUIVALENT TO 20CM $\phi$ )
SP2	1-503-190-11	SPEAKER (TWEETER) 16CM <sup>2</sup> (EQUIVALENT TO 4.5CM $\phi$ )

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers ( $\Delta$ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -XX or  $\Delta$ - $\Delta\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in  $\mu$ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: $\mu$ F, PF: $\mu$ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH :  $\mu$ H

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